

WHAT IS CLAIMED IS:

1. A pneumatic nail driver comprising:

a main body including a cavity defined therein and a handle extending from the main body, the cavity having an open end defined in a front end of the main body and a close end formed opposite to the open end of the cavity, a passage defined in the handle and communicating with the cavity, the passage adapted to connected to a compressed air source such that the compressed air can flow into the cavity via passage, a spring compressively received in the cavity, the spring having a first end abutting the close end of the cavity and a second end opposite to the first end of the spring;

a sleeve slidably received in the cavity, the sleeve having a close end abutting the second end of the spring and an open end facing the front end of the main body, the sleeve including a annular groove defined in an outer periphery of the sleeve near the open end of the sleeve, a hole defined in a bottom of the annular groove and laterally extending through the sleeve, the compressed air flowing into the sleeve when the annular groove communicates with the passage in the main body, two O-rings respectively mounted around the sleeve near two opposite sides of the annular groove and a C-shaped ring laterally engaged to an inner periphery of the cavity to limit a stroke of the sleeve in the cavity;

a block received in the sleeve for controlling the compressed air, the block including a first side abutting the close end of the sleeve and a second side opposite to the first side of the block, a first outlet centrally

longitudinally defined in the second side of the block, a second outlet longitudinally defined in the second side of the block and laterally communicating with the first outlet;

5 a cylinder longitudinally connected to and having a first end partially securely received in the sleeve, the cylinder including a first side abutting the block to hold the block in place, a first hole longitudinally centrally defined in the first side of the cylinder and communicating with the first outlet in the block, a striker reciprocally movably received in the first hole in the cylinder, a path defined in the first side of the cylinder, the path
10 extending to laterally communicate with the first hole and communicating with the second outlet in the block, a second hole longitudinally centrally defined in a second end of the cylinder and communicating with the first hole;

a shaft partially longitudinally and movably received in the
15 cylinder, the shaft includes a stopper radially extending from an outer periphery of the shaft to divide the shaft into a first section and a second section, the stopper having a diameter greater than that of the second hole and selectively abutting the second end of the cylinder for backward pushing the cylinder and the sleeve, the shaft including a striking face formed on a
20 distal end of the second section of the shaft and adapted to strike a nail;

a collar being cylindrical and longitudinally mounted to the front end of the main body to protect the cylinder from a bump and reduce the noise during operating; and

a holder securely longitudinally connected to the second end of

the cylinder and having a through hole centrally longitudinally defined in the holder, the through hole in the holder co-axially corresponding to the second hole in the cylinder and allowing the second section of the shaft reciprocally moved in the holder to strike the nail that extends into the through hole in the holder, at least one magnet buried in the holder and adapted to hold the nail in place when the nail extends into the through hole in the holder.

2. The pneumatic nail driver as claimed in claim 1, wherein the main body comprises a first annular groove and a second annular groove respectively defined in the inner periphery of the cavity near the front end of the main body, the distance between the front end of the main body and the first annular groove being shorter than that between the front end of the main body and the second annular groove.

3. The pneumatic nail driver as claimed in claim 1, wherein the block comprises a recess defined therein and longitudinally communicating with the first outlet and the second outlet, an inlet laterally defined in the block and communicating with the recess, a valve longitudinally movably received in the recess for selectively closing the first outlet and the second outlet, wherein the second outlet communicates with the inlet when the valve closes the first outlet and the first outlet communicates with the inlet when the valve closes the second outlet.

4. The pneumatic nail driver as claimed in claim 2, wherein the C-shaped ring is engaged to the second annular groove in the inner periphery of the cavity in the main body.

5. The pneumatic nail driver as claimed in claim 2, wherein the collar

comprises an annular protrusion radially extending from an outer periphery of the collar and engaged to the first annular groove in the inner periphery of the cavity in the main body.